MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

081356-0232

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

Complete if Known Substitute for form 1449B/PTC Application Number 10/524,193 INFORMATION DISCLOSURE STATEMENT BY APPLICABIT 10/6/2005 Filing Date Nobutaka NAKASHIMA First Named Inventor Date Submitted: January 25, 2006 **Group Art Unit** Unassigned **Examiner Name** Unassigned (use as many sheets as necessary),

				U.S. PATENT DOCUMENTS		
Examiner Initials*	Cite	U.S. Patent Document		Name of Patentee or Applicant of Cited	Date of Publication of	Pages, Columns, Lines, Where Relevan Passages or Relevant
	No.1	Number	Kind Code ² (if known)	Document	Cited Document MM-DD-YYYY	Figures Appear
	-					
	-					

Attorney Docket Number

_				U.S. PATENT APPLICATION DOCUMENTS)	
Examiner Initials*	Cite No.1	U.S. Patent Applica Serial Number	tion Document Kind Code² (if known)	Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

				<u> </u>	FOREIGN PATENT DOCUMENTS			
Examiner Initials*	Cite No.1	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1e
								_
	- 							

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	. Te
/IP/	B1	Mary B. SLABAUGH et al., "Vaccinia Virus Ribonucleotide Reductase Expression and Isolation of the Recombinant Large Subunit", The Journal of Biological Chemistry, vol. 268, No. 24, Issue of August 25, 1993, pp. 17803-17810.	
/IP/	B2	Anna BRANDI et al., "Post-transcriptional regulation of CspA expression in <i>Escherichia coll</i> ", Molecular Microbiology (1996), Vol. 19, No. 2, pp. 231-240.	
/IP/	В3	Maria Luisa TUTINO et al., "A Novel replication element from an Antarctic plasmad as a tool for the expresión of proteins at low temperatura", Extremophiles (2001), 5:257-264.	
			<u> </u>

Examiner Signature	/Ileana Popa/	Date Considered	05/14/2007

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP'809: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450. Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Sheet

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

1U/ 2C4 1 72 MODIFIED PTO/SB/08 (08-00)

MODIFIED PTO/SB/98 (08-00

Approver U.S. Patent and Trademark

se through 10/31/2002. OMB 0651-0031: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, persons are required to respond to a collection of information unless it contains a valid OMB control

number.	Substitute fo	r form 1449B	/PTO		CUHAR ROBERT RESERVETO	TEB 2005
	INFORMATIO	ON DISCLO	SURE	Application Number	Unassigned	
	STATEMENT	T BY APPLI	CANT	Filing Date	2/11/2005	
	D-4- 0b:#	4	44 0005	First Named Inventor	Nobutaka NAKASHIMA	
	Date Submitted	: Feoruary	11, 2005	Group Art Unit	Unassigned	<i>;</i>
	(use as many s	heets as ne	cessary)	Examiner Name	Unassigned	
Sheet	1	of	2	Attorney Docket Number	081356-0232	

•	U.S. PATENT DOCUMENTS								
Examiner Initials*		U.S. Patent Document			Date of Publication of	Pages, Columns, Lines, Where Relevant			
	Cite No. ¹	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear			

						نا القفاعات و مديد مدين مدين مدين دور و مدين او 100 دانگان بي مدين و مدين و مدين و مدين و مدينده در و مدينده د 			

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Fo Office	oreign Patent C Number ⁴	Occument Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶	
<i>,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A1	wo	96/03521		OPPENHEIM et al.	02/08/1996			
/[[-/	A2	JP	10-248578		FUJIO, Mizumura Yurie To	09/22/1998		Α	
(15/	A3	EP	1127943	A2	MARGARIT Y ROS et al.	08/29/2001			
/f P/	A4	wo	01/48192	A1	WATSON et al.	07/05/2001			

		NON PATENT LITERATURE DOCUMENTS	
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т6
/IP/	A5	MUJACIC et al., "Cold-inducible cloning vectors for low-temperature protein expression in Escherichia coli: application to the production of a toxic and proteolytically sensitive fusion protein., GENE, 1999, Vol. 238, No. 2, pp. 325-332.	
	A6	DE MOT et al., "Structural analysis of the 6 kb cryptic plasmid pFAJ2600 from Rhodococcus erythropolis NI 86/21 and construction of Escherichia coli-Rhodococcus shuttle vectors., MICROBIOLOGY, 1997, Vol. 143, Pt. 10, pp. 3137-3147.	
	A7	TAKANO et al., "Construction of thiostreptoninducible, high-copy-number expression vectors for use in Streptomyces spp., GENE, 1995, Vol. 166, No. 1, pp. 133-137.	
	A8	ENGUITA et al., "An inducible expression system of histidine-tagged proteins in Streptomyces lividans for one-step purification by Ni2+ affinity chromatography., FEMS MICROBIOL. LETT., 1996, Vol. 137, Nos. 2 to 3, pp. 135-140.	
	A9	LOWELL et al., "Structure of the murine serum amyloid A gene family: Gene conversion., J. BIOL. CHEM., 1986, Vol. 261, No. 18, pp. 8442-8452.	
	A10	KAWAI et al., "Functional annotation of a full-length mouse cDNA collection., NATURE, 2001, Vol. 409, No. 6821, pp. 685-690.	,
/IP/	A11	VAN DER VLIET et al., "Apolipoprotein A-V: a novel apolipoprotein associated with an early phase of liver regeneration., J. BIOL. CHEM., 2001, Vol. 276, No. 48, pp. 44512-44520.	

Examiner	/Ileana Popa/	Date	05/14/2007
Signature	, mountair opar .	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

MODIFIED PTO/SB/08 (08-00)

Approve U.S. Patent and Trademark

use through 10/31/2002. OMB 0651-0031 U.S. DEPARTMENT OF COMMERCE unless it contains a valid OMB control

Under the Paperwork Reduction Act of 199

2

Sheet

Substitute for form 14498/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: February 11, 2005

(use as many sheets as necessary)

of

persons are required to respond to a collection of information

Complete if Known **Application Number** Unassigned 2/11/2005 **Filing Date** First Named Inventor Nobutaka NAKASHIMA Group Art Unit Unassigned **Examiner Name** Unassigned Attorney Docket Number 081356-0232

		NON PATENT LITERATURE DOCUMENTS	
Examiner City No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ ⁶
/IP/ A12		GRUSBY et al., "Molecular cloning of mouse cathepsin D., NUCLEIC ACIDS RES., 1990, Vol. 18, No. 13, p. 4008.	
	A13	DEGEN et al., "Characterization of the cDNA coding for mouse prothrombin and localization of the gene on mouse chromosome 2., DNA CELL BIOL., 1990, Vol. 9, No. 7, pp. 487-498.	
	A14	EVANS et al., "Mouse glandular kallikrein genes. Structure and partial sequence analysis of the kallikrein gene locus., J. BIOL. CHEM., 1987, Vol. 262, No. 17, pp. 8027-8034.	
	A15	BARON et al,. "Cloning and characterization of an actin-resistant DNase I-like endonuclease secreted by macrophages., GENE, 1998, Vol. 215, No. 2, pp. 291-301.	
	A16	SHIOKAWA et al., "DLAD, a novel mammalian divalent cation-independent endonuclease with homology to DNase II., NUCLEIC ACIDS RES., 1999, Vol. 27, No. 20, pp. 4083-4089.	
	A17	FERRARI et al., "The mouse gene coding for highm obiilty group 1 protein (HMG1)., J. BIOL. CHEM., 1994, Vol. 269, No. 46, pp. 28803-28808.	
	A18	TEKKI-KESSARIS et al., "Characterization of the mouse Kid1 gene and identification of a highly erlated gene, Kid2," GENE, 1999, Vol. 240, No. 1, pp. 13-22.	
	A19	OLTVAI et al., "Bci-2 heterodimerizes in vivo with a conserved homolog, Bax, that accelerates programmed cell death," CELL, 1993, Vol. 74, No. 4, pp. 609-619.	
	A20	POSTIC et al., "Cloning and characterization of the mouse glucokinase gene locus and identification of distal liver-specific DNase I hypersensitive sites," GENOMICS, 1995, Vol. 29, No. 3, pp. 740-750.	
	A21	HOLZL et al., "The regulatory complex of Drosophila melanogaster 26S proteasomes. Subunit composition and localization of a deubiquitylating enzyme," J. CELL. BIOL., 2000, Vol. 150, No. 1, pp. 119-130.	
	A22	ROCK et al., "Pantothenate kinase regulation of the intracellular concentration of coenzyme A," J. BIOL. CHEM., 2000, Vol. 275, No. 2, pp. 1377-1383.	
/IP/	A23	WONG et al., "Characterization of human and mouse peroxiredoxin IV: evidence for inhibition by Prx-IV of epidermal growth factor- and p53-induced reactive oxygen species," ANTIOXID. REDOXSIGNAL, 2000, Vol. 2, No. 3, pp. 507-518.	

			
Examiner Signature	/Ileana Popa/	Date Considered	05/14/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number: 2See attached Kinds of U.S. Patent Documents. 3Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.
Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.